



Remediation Summary and Closure Request

Devon Energy Corporation

Tomcat Federal 21 Com #1

Lea County, New Mexico

Unit Letter "F", Section 21, Township 23 South, Range 32 East

Latitude 32.291682 North, Longitude 103.682428 West

NMOCD Incident # nKJ1528146835

Prepared For:

Devon Energy Corporation

6488 Seven Rivers Hwy

Artesia, NM 88210

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

Office: (575) 393-3386

July 2022

A handwritten signature in black ink that reads "Bradley Wells".

Bradley Wells

Project Manager

bwells@hungry-horse.com

A handwritten signature in black ink that reads "Daniel Dominguez".

Daniel Dominguez

Environmental Manager

ddominguez@hungry-horse.com

Table Of Contents

| | |
|---|---|
| Background | 1 |
| NMOCD Site Classification | 1 |
| Delineation and Remediation Activities | 2 |
| Restoration, Reclamation, and Re-Vegetation | 3 |
| Closure Request | 3 |
| Limitations | 3 |
| Distribution | 4 |

Figures

- Figure 1 – Topographic Map
- Figure 2 – OSE POD Locations Map
- Figure 3 – USGS Well Locations Map
- Figure 4 – Sample Location Map

Tables

- Table 1 – Summary of Soil Sample Laboratory Analytical Results

Attachments

- Attachment I – NMOCD Correspondence
- Attachment II – Site Photographs
- Attachment III – Depth to Groundwater
- Attachment IV – Laboratory Analytical Reports
- Attachment V – NMOCD Form C-141 Closure Page



HUNGRY HORSE, LLC

The following Remediation Summary and Closure Request serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter F (SE/NW), Section 21, Township 23 South, Range 32 East, approximately 32 miles Southwest of Eunice, in Lea County, New Mexico. The property is on Federal land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active tank battery; Latitude 32.291682 North, Longitude 103.682428 West. The Initial NMOCD Form C-141 indicates on April 12, 2015, approximately 135 bbls of produced water overflowed the tanks due to a SCADA pack failure. The release was contained within the unlined containment area. Approximately 130 bbls of produced water were recovered. Previously submitted NMOCD Form C-141 is available on the NMOCD Imaging System. NMOCD Form C-141 Closure page is included as Attachment V. The release event occurred, remediation activities were completed, and closure was accepted before the NMOCD Rule change on August 24, 2018.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the release site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Depth to groundwater information is provided as Attachment III and the results are depicted on Figures 2 & 3.

One USGS water well was located within a half mile of the release area, listing depth to water at approximately five hundred fifteen feet bgs. The Lea County Depth to Ground Water map listed depth to water at approximately four hundred feet bgs. At that time the NMOCD allowed use of these maps to estimate depth to water. Depth to water was thus determined to be greater than one hundred feet bgs at this location. Utilizing this information, the NMOCD Recommended Remedial Action Levels (RRAL's) for the Site were determined as follows:

| Depth to Groundwater | Constituent | Method | RRAL |
|----------------------|-----------------|-----------------------------------|-------------|
| >100' | Chloride | EPA 300.0 or SM4500 CLB | 1,000 mg/kg |
| | TPH (GRO + DRO) | EPA SW-846 Method 8015M | 5,000 mg/kg |
| | BTEX | EPA SW-846 Methods 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Methods 8021B or 8260B | 10 mg/kg |



Delineation and Remediation Activities:

On September 29, 2015, Hungry Horse conducted an initial site assessment and delineation. Soil samples were collected using hand tools, no mechanical equipment was used. Twelve delineation soil samples were collected from three sample locations, SP1, SP2, and SP3, and were submitted to the laboratory for analysis of chloride.

Laboratory analytical results indicated contaminant concentrations were above the NMOCD delineation requirement of 250 mg/kg in each of the submitted samples, with the exception of SP3 at 2 feet bgs, which exhibited chloride concentration of 240 mg/kg.

On October 6, 2015, the Tomcat 21 Fed 1 Remediation Work Plan Packet was emailed to Kellie Jones at the NMOCD and Shelly Tucker at the BLM. The work plan proposed to hand excavate two feet of impacted material from the area of Sample Point #1 and one foot from the area of Sample Point #3. On October 8, 2015, the proposed work plan was approved by the OCD and BLM. Work plan and email correspondence are provided as Attachment I.

The release area was excavated, via hand tools, according to the approved work plan. Delineation was attempted at SP#1 in an effort to determine, the vertical extent of chloride contamination, and where chloride concentrations were less than or equal to 250 mg/kg. Due to the proximity of tanks and process equipment, delineation was conducted via hand auger. At eight feet below ground surface, auger refusal was encountered due to hard packed caliche. As deeper delineation was not possible, soil samples were collected and submitted to the laboratory for analysis of chloride.

Laboratory analytical results indicated contaminant concentrations were above the NMOCD delineation requirement of 250 mg/kg in each of the submitted samples and were presented to the OCD and BLM. On November 3, 2015, closure approval was given with the stipulation that the incident would remain open until the battery is removed from service. At that time a complete delineation and remediation would be required. Approximately 72 cy of excavated impacted material was transported to an NMOCD approved disposal facility, the excavation was backfilled with clean, non-impacted caliche and brought back to grade. Email correspondence are provided in Attachment I.

However, as the oil and gas industry faced a slowdown in 2016, Devon put a hold on all environmental jobs and related work before a closure report with Final C-141 could be submitted to the NMOCD. In June 2022, Devon requested Hungry Horse prepare for submission this Remediation Summary and Closure Request with NMOCD Form C-141 Closure page.

On May 8, 2020, a Remediation Summary Report Form was received by the NMOCD, however, to date, no response has been received. Report is provided in Attachment I.



A Sample Location Map is provided as Figure 4. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV. Site Photographs are provided as Attachment II.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, and with OCD and BLM approval, the excavated area was backfilled and contoured to achieve erosion control and preserve surface water flow. As the affected area is located on an active tank battery, seeding will not be required.

Closure Request:

Remediation activities were conducted in accordance with NMOCD and BLM approved work plan. Soil affected above the NMOCD Recommended Remedial Action Levels has been excavated and hauled to an NMOCD approved disposal facility. Laboratory analytical results from soil samples were accepted by the NMOCD and BLM and closure report with Final C-141 was requested.

Based on laboratory analytical results and field activities conducted to date, Devon Energy Corporation respectfully requests closure be granted for the Tomcat Federal 21 Com #1 location.

Limitations:

Hungry Horse, LLC, has prepared this Remediation Summary and Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Devon Energy Corporation

6488 Seven Rivers Hwy
Artesia, NM 88210

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
506 W. Texas
Artesia, NM 88210

New Mexico Bureau of Land Management

620 E Greene St
Carlsbad, NM 88220

Figures

**Figure 1**

Topographic Map
 Devon Energy Corporation
 Tomcat Federal 21 Com #1
 GPS: 32.291682, -103.682428
 Lea County

Legend:

- Tomcat Federal 21 Com #1 Location

Drafted: dd
 Checked: bw
 Date: 7/27/22



**Figure 2**

OSE POD Locations Map
Devon Energy Corporation
Tomcat Federal 21 Com #1
GPS: 32.291682, -103.682428
Lea County

Legend:

- Tomcat Federal 21 Com #1 Location
- Active OSE Water Well

Drafted: dd
Checked: bw
Date: 7/27/22



**Figure 3**

USGS Well Locations Map
Devon Energy Corporation
Tomcat Federal 21 Com #1
GPS: 32.291682, -103.682428
Lea County

Legend:

- Tomcat Federal 21 Com #1 Location
- USGS Well Location



Drafted: dd
Checked: bw
Date: 7/27/22



**Figure 4**

Sample Location Map
Devon Energy Corporation
Tomcat Federal 21 Com #1
GPS: 32.291682, -103.682428
Lea County

Legend:

-  Release Area
 Sample Location

Drafted: dd
Checked: bw
Date: 7/27/22



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Devon Energy Corporation
Tomcat Federal 21 Com #1
NMOCD Ref. #: nKJ1528146835

| Sample ID | Date | Depth (ft) | Soil Status | Field Chloride | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
|---|----------|------------|-------------|----------------|-----------------|--------------|---|--|---|------------------|
| SP1 | 9/29/15 | Surf | Excavated | - | - | - | - | - | - | 4,880 |
| | 9/29/15 | 1 | Excavated | - | - | - | - | - | - | 13,200 |
| | 9/29/15 | 2 | Excavated | - | - | - | - | - | - | 7,760 |
| | 9/29/15 | 3 | In-Situ | - | - | - | - | - | - | 6,900 |
| | 10/28/15 | 5 | In-Situ | - | - | - | - | - | - | 576 |
| | 10/28/15 | 7 | In-Situ | - | - | - | - | - | - | 6,130 |
| | 10/28/15 | 8 | In-Situ | - | - | - | - | - | - | 7,600 |
| SP2 | 9/29/15 | Surf | Excavated | - | - | - | - | - | - | 128 |
| | 9/29/15 | 1 | Excavated | - | - | - | - | - | - | 576 |
| | 9/29/15 | 2 | In-Situ | - | - | - | - | - | - | 736 |
| | 9/29/15 | 3 | In-Situ | - | - | - | - | - | - | 736 |
| SP3 | 9/29/15 | Surf | Excavated | - | - | - | - | - | - | 3,040 |
| | 9/29/15 | 1 | Excavated | - | - | - | - | - | - | 576 |
| | 9/29/15 | 2 | In-Situ | - | - | - | - | - | - | 240 |
| | 9/29/15 | 3 | In-Situ | - | - | - | - | - | - | 5,760 |
| NMOCD Recommended Remedial Action Levels | | | | | 10 | 50 | - | - | 5,000 | 1,000 |

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

NMOCD Correspondence

By Kellie Jones at 11:16 am, Oct 08, 2015

By Kellie Jones at 11:17 am, Oct 08, 2015

HUNGRY HORSE, LLC

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

1. Please to vertical delineate SP1 to 250 ppm chlorides.
2. Ensure BLM approval/concurrence.

6Oct15

To: Kellie Jones, New Mexico Oil Conservation Division
Shelly Tucker, Bureau of Land Management
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Tomcat 21 Fed 1
API: 30-025-33356
Legals: UL. F, Sec. 21, T23S, R32E
GPS: 32.2927 -103.6815

Site Information

This site is located in Lea County, New Mexico approximately 3.6 miles north of the intersection of New Mexico Highway 128 and Red Road and 3.5 miles east of Red Road. Based upon the New Mexico State Engineer's website, there is one water well in the area with a depth to groundwater of 400'. The Lea County Depth to Groundwater Map indicates the same depth to groundwater.

This battery is an active and working site. The produced water release that occurred on 12Apr15, had no impact outside the berms of the battery. All fluid released, remained inside the earthen berms.

Work Conducted to Date

A delineation was conducted by use of hand tools on 29Sept15. Due to safety concerns, no mechanical equipment was used. Soil samples were obtained at three sample points from the surface to 3' below ground surface (BGS). Lab analysis was conducted for Chlorides. (See attached map with sample points and lab results.)

Proposed Remediation

Based upon the delineation results, depth to ground water, and the safety concerns of working inside a battery, I propose to hand excavate 2' of impacted material from the area of Sample Point #1 and 1' from the area of Sample Point #3. This encompasses the area between and on both side of the tanks. A complete delineation and remediation will be conducted at the time the facility is shut in and taken out of service.

All impacted material will be transported to a division approved facility for disposal. The battery will then be backfilled with fresh material.

Sincerely,



Vernon K. Black, Hungry Horse, LLC

Remediation Summary Report Form

General Information

This report prepared by Hungry Horse, LLC on 5Nov15, is in response to the release for Devon Energy Production at the Tomcat 21 Fed #1 Battery, located in rural Lea County, New Mexico, for the release that occurred 12Apr15, due to equipment failure.

Date: 5Nov15

Client: Devon Energy Production

Site Name: Tomcat 21 Fed #1

County: Lea

State: New Mexico

API: 30-025-33356

Site Coordinates

Latitude: 32.2927

Longitude: -103.6815

Surface Owner: BLM

Release Description and Assessment

Date of Spill: 12Apr15

Type of Spill: Oil ☒ Produced Water ☐ Condensate ☐ Other (Specify):

Cause of Spill: ☒ Equipment Failure ☐ Valve Failure ☐ Line Rupture ☐ Leaking Tank ☒ Tank Overfill
Other (Specify):

Other Contributing Factors or Comments: N/A

Quantity Spilled: 135 bbls

Quantity Recovered: 130 bbls

Total Released: 5 bbls

Method of Recovery: ☒ Vacuum Truck ☐ Other (Specify):

New Mexico Oil Conservation Division Notified: ☒ Yes ☐ No C 141 Completed and Submitted: ☒ Yes ☐ No

Spill Area Impacted: ☒ Inside Firewall ☐ On Production Pad ☐ In Pasture ☐ In Cultivated Land
Other (Specify): Nothing outside of firewall was impacted

Total Square Foot Impacted: 3800

Estimated Depth: 1'

Volume (Cu. Yards): 75

Other Comments: Nothing outside of firewall was impacted

Remediation Activity Summary

The remediation work plan was executed as approved by both NM OCD and BLM. Approximately one foot of impacted soil was removed from the impacted areas except for the area around Sample Point #1 where 2' of impacted soil was removed. As per the approved work plan, further delineation was conducted at SP #1 to try and determine the point at which Chlorides reached 250 ppm or less. Due to safety concerns, this further delineation was conducted by use of a hand auger. At eight foot below ground surface, auger refusal was encountered due to hard packed caliche. Soil samples were collected and lab analysis conducted. Results, which did not reach the 250 ppm goal, were resented to NM OCD and BLM. Due to safety concerns further delineation was not practical. Closure approval was given with the stipulation that the RP would remain open until such time the battery is removed from service and a full delineation and remediation is completed. All impacted material was transported to a division approved disposal facility and the excavated battery was backfilled with fresh caliche and brought back to grade.



Vernon K. Black, Hungry Horse, LLC

Vernon Black

From: Vernon Black
Sent: Tuesday, November 03, 2015 9:28 AM
To: Kellie Jones (kellie.jones@state.nm.us)
Cc: Shelly J. Tucker (stucker@blm.gov); Brett Fulks (Brett.Fulks@dvn.com)
Subject: Tomcat 21 Fed #1 Battery

Kellie,

Thanks for taking the time to meet with me this morning concerning the work at the above referenced location. I and my customer, Devon Energy Production, understand the NM OCD requirement for determining the depth at which Chlorides reach a level of 250 ppm or less. However, as we discussed it is a serious safety concern to try using equipment, other than hand tools, to determine the point at which the Chlorides reach this level inside the battery. We appreciate you taking this into consideration and will proceed, as you approved, to backfill the excavated site with the stipulation that the RP will remain open until such time the battery is removed from service. At that time a complete delineation/remediation will be performed.

Thanks for your help,

Vernon K. Black
Hungry Horse, LLC
PO Box 1058
Hobbs, NM 88241
575-393-3386 office
575-631-2253 cell

Vernon Black

From: Tucker, Shelly <stucker@blm.gov>
Sent: Tuesday, November 03, 2015 9:59 AM
To: Vernon Black
Cc: Kellie Jones (kellie.jones@state.nm.us); Brett Fulks (Brett.Fulks@dvn.com)
Subject: Re: Tomcat 21 Fed #1 Battery

Thank you for the information. I will note this in my records.

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Tue, Nov 3, 2015 at 9:28 AM, Vernon Black <vblack@hungry-horse.com> wrote:

Kellie,

Thanks for taking the time to meet with me this morning concerning the work at the above referenced location. I and my customer, Devon Energy Production, understand the NM OCD requirement for determining the depth at which Chlorides reach a level of 250 ppm or less. However, as we discussed it is a serious safety concern to try using equipment, other than hand tools, to determine the point at which the Chlorides reach this level inside the battery. We appreciate you taking this into consideration and will proceed, as you approved, to backfill the

excavated site with the stipulation that the RP will remain open until such time the battery is removed from service. At that time a complete delineation/remediation will be performed.

Thanks for your help,

Vernon K. Black

Hungry Horse, LLC

PO Box 1058

Hobbs, NM 88241

575-393-3386 office

575-631-2253 cell

Vernon Black

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Thursday, October 08, 2015 1:21 PM
To: Vernon Black; Shelly J. Tucker (stucker@blm.gov)
Cc: Reggie Brooks; Terry Smith
Subject: RE: Devon-Tomcat 21 Fed 1 Battery

Vernon,

Here is information on the recent submittal.

| | | | | | | | |
|-------------|-----------|---|-------|-------------------|--------------|--------------|----|
| 3902 | 10/8/2015 | A | Devon | Tomcat 21 Battery | 23S 32E 21 F | 30 025 33356 | 4, |
|-------------|-----------|---|-------|-------------------|--------------|--------------|----|

The work plan is conditionally approved, with the condition of complete vertical delineation at the site down to 250 ppm chlorides.

If you have any questions, please feel free to contact me.

Kellie Jones
 Environmental Specialist, District 1
 Oil Conservation Division, EMNRD
 575-393-6161 ext. 111
 575-370-3180 (emergency-cell)
 E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Vernon Black [mailto:vblack@hungry-horse.com]
Sent: Wednesday, October 07, 2015 10:21 AM
To: Jones, Kellie, EMNRD; Shelly J. Tucker (stucker@blm.gov)
Cc: Reggie Brooks; Terry Smith
Subject: Devon-Tomcat 21 Fed 1 Battery

Kellie,

Thanks for taking the time to meet with me this morning to discuss the work plan for the above referenced site. As per our conversation, we'll proceed with the remediation plan as approved with the stipulation for further delineation at SP #1. We'll conduct further sampling/analysis at this point and provide you the results.

Shelly, for your review.

Thanks for all your help,
 Vernon K. Black
 Hungry Horse, LLC
 PO Box 1058

Hobbs, NM 88241
575-393-3386 office
575-631-2253 cell

Vernon Black

From: Tucker, Shelly <stucker@blm.gov>
Sent: Thursday, October 08, 2015 10:30 AM
To: Vernon Black
Cc: Kellie Jones (kellie.jones@state.nm.us); Reggie Brooks; Terry Smith
Subject: Re: Devon-Tomcat 21 Fed 1 Battery

Vernon,

The BLM accepts/approves your proposed work plan - with concurrence of NMOCD stipulation of full delineation at SP1

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Wed, Oct 7, 2015 at 10:21 AM, Vernon Black <vblack@hungry-horse.com> wrote:

Kellie,

Thanks for taking the time to meet with me this morning to discuss the work plan for the above referenced site. As per our conversation, we'll proceed with the remediation plan as approved with the stipulation for further delineation at SP #1. We'll conduct further sampling/analysis at this point and provide you the results.

Shelly, for your review.

Thanks for all your help,

Vernon K. Black

Hungry Horse, LLC

PO Box 1058

Hobbs, NM 88241

575-393-3386 office

575-631-2253 cell

Attachment II Site Photographs

Photographs



Photographs



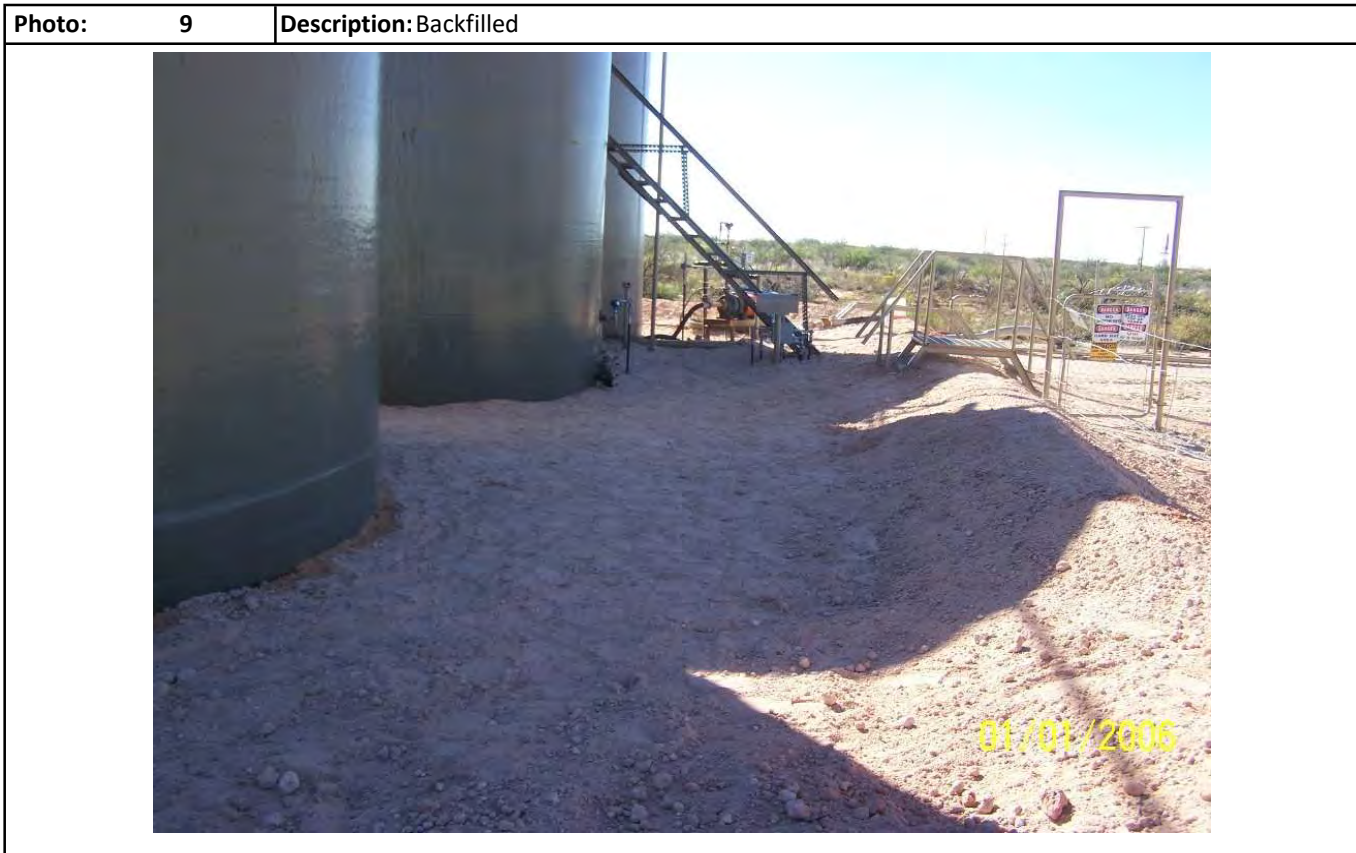
Photographs



Photographs



Photographs



Photographs



Attachment III

Depth to Groundwater



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 624060.85 **Northing (Y):** 3573529.32 **Radius:** 805

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/27/22 10:36 AM WELLS WITH WELL LOG INFORMATION



Data Collected: **Water Quality**  Generated At: **United States**  

USGS 321735103402501 23S,32E,21,241A

Lea County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°17'35", Longitude 103°40'25" NAD27
 Land-surface elevation 3,693 feet above NGVD29
 This well is completed in the Other aquifers (n9999OTHER) national aquifer.
 This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

[illegible]

[Questions about sites/data?](#)
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U.S. Department of the Interior | U.S. Geological Survey
Title: Water Quality Samples for USA: Sample Data
URL: <https://nwis.waterdata.usgs.gov/nwis/qwdata/>

Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2022-07-27 16:50:23 EDT
0.04 5.49 (new)



Attachment IV

Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 01, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TOMCAT 21 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/29/15 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #1 SURFACE (H502574-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 4880 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #1 1' BGS (H502574-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 13200 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP #1 2' BGS (H502574-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7760 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP #1 3' BGS (H502574-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 6900 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #2 SURFACE (H502574-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #2 1' BGS (H502574-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 576 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #2 2' BGS (H502574-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 736 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #2 3' BGS (H502574-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 736 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #3 SURFACE (H502574-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3040 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #3 1' BGS (H502574-10)

| Chloride, SM4500Cl-B | | mg / kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 576 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #3 2' BGS (H502574-11)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP #3 3' BGS (H502574-12)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5760 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------------------|--------------|------------------|------------|--------------------------|-----|---------------|---------|------------|------------|------------------|---------|-------------------------|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Hungry Horse, LLC | | P.O. #: | | BILL TO | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: Vernon K. Black | | Company: | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | |
| Address: PO Box 1058 | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Hobbs | | Address: | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 575-631-2253 | | City: | | | | | | | | | | | | | | | | | | | | | | | | |
| Fax #: 575-391-4585 | | State: | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: Devan | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Tencat 21 Basterly | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: 801 Lea Court 1 | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Vernon K. Black | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | | | | | | | | | | | | |
| H502574 | SP#1 | G | 1 | | | X | | | | | | | Sept 14 | 1400 | chlorides | | | | | | | | | | | |
| 1' BG5 | Surface | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2' BG5 | Surface | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3' BG5 | Surface | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5' BG5 | Surface | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8' BG5 | Surface | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: [Signature] | | Date: Sept 15 | | Time: 1400 | | Received By: [Signature] | | Date: Sept 15 | | Time: 1400 | | Sample Condition | | CHECKED BY: [Signature] | | | | | | | | | | | | |
| Delivered By: (Circle One) | | Sample Condition | | Cool | | Yes | | No | | Yes | | No | | Add'l Phone #: | | | | | | | | | | | | |
| Sampler - UPS - Bus - Other: | | Fax Result: | | Yes | | No | | Add'l Fax #: | | | | | | | | | | | | | | | | | | |
| REMARKS: | | | | | | | | | | | | | | | | | | | | | | | | | | |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 30, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TOMCAT 21 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/15 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/28/2015
 Reported: 10/30/2015
 Project Name: TOMCAT 21 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP1 5' BGS (H502831-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 10/30/2015 | ND | 464 | 116 | 400 | 10.9 | |

Sample ID: SP1 7' BGS (H502831-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6130 | 16.0 | 10/30/2015 | ND | 464 | 116 | 400 | 10.9 | |

Sample ID: SP1 8' BGS (H502831-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7600 | 16.0 | 10/30/2015 | ND | 464 | 116 | 400 | 10.9 | |

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | | | |
|---|------------------------|--|------------------|
| Company Name: <u>Hungry Horse, LLC</u> | | P.O. #: | |
| Project Manager: <u>Vernon K. Black</u> | | Company: | |
| Address: <u>PO Box 1058</u> | | Attn: | |
| City: <u>Hobbs</u> | | Address: | |
| Phone #: <u>575-631-2253</u> | | City: | |
| Fax #: <u>575-391-4585</u> | | State: | |
| Project #: _____ | | Zip: | |
| Project Name: <u>Tomcat 21 Red H1</u> | | Phone #: | |
| Project Location: <u>Lea County ~</u> | | Fax #: | |
| Sampler Name: <u>Vernon K. Black</u> | | | |
| FOR LAB USE ONLY | | | |
| Lab I.D. <u>#508831</u> | Sample I.D. <u>SP1</u> | (G)RAB OR (C)OMP. | # CONTAINERS |
| | | GROUNDWATER | |
| | | WASTEWATER | |
| | | SOIL | |
| | | OIL | |
| | | SLUDGE | |
| | | OTHER : | |
| | | ACID/BASE: | |
| | | ICE / COOL | |
| | | OTHER : | |
| | | MATRIX | PRESERV |
| | | | SAMPLING |
| | | DATE | TIME |
| | | <u>8/24/14</u> | <u>3:30</u> |
| | | | <u>Chlorides</u> |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise. | | | |
| Relinquished By: <u>[Signature]</u> | | Received By: <u>Judy Garcia</u> | |
| Date: <u>8/24</u> | | Time: <u>1805</u> | |
| Relinquished By: _____ | | Received By: _____ | |
| Date: _____ | | Time: _____ | |
| Delivered By: (Circle One) <u>UPS</u> | | Sample Condition | |
| Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> | | Checked By: <u>[Signature]</u> | |
| Sampler - UPS - Bus - Other <u>#34</u> | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 2014 <u>2014</u> | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 2014 <u>2014</u> | | Add'l Phone #: _____ | |
| 2014 <u>2014</u> | | Add'l Fax #: _____ | |
| REMARKS: | | | |

Attachment V
NMOCD Form C-141 Closure page

| | |
|----------------|---------------|
| Incident ID | nKJ1528146835 |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall Title: Env. Prof.

Signature: Dale Woodall Date: 7/29/2022

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jocelyn Harimon Date: 07/29/2022

Printed Name: _____ Title: _____



Remediation Summary and Closure Request

Devon Energy Corporation

Tomcat Federal 21 Com #1

Lea County, New Mexico

Unit Letter "F", Section 21, Township 23 South, Range 32 East

Latitude 32.291682 North, Longitude 103.682428 West

NMOCD Incident # nKJ1528146835

Prepared For:

Devon Energy Corporation

6488 Seven Rivers Hwy

Artesia, NM 88210

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

Office: (575) 393-3386

July 2022

A handwritten signature in black ink that reads "Bradley Wells".

Bradley Wells

Project Manager

bwells@hungry-horse.com

A handwritten signature in black ink that reads "Daniel Dominguez".

Daniel Dominguez

Environmental Manager

ddominguez@hungry-horse.com

Table Of Contents

| | |
|---|---|
| Background | 1 |
| NMOCD Site Classification | 1 |
| Delineation and Remediation Activities | 2 |
| Restoration, Reclamation, and Re-Vegetation | 3 |
| Closure Request | 3 |
| Limitations | 3 |
| Distribution | 4 |

Figures

- Figure 1 – Topographic Map
- Figure 2 – OSE POD Locations Map
- Figure 3 – USGS Well Locations Map
- Figure 4 – Sample Location Map

Tables

- Table 1 – Summary of Soil Sample Laboratory Analytical Results

Attachments

- Attachment I – NMOCD Correspondence
- Attachment II – Site Photographs
- Attachment III – Depth to Groundwater
- Attachment IV – Laboratory Analytical Reports
- Attachment V – NMOCD Form C-141 Closure Page



HUNGRY HORSE, LLC

The following Remediation Summary and Closure Request serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter F (SE/NW), Section 21, Township 23 South, Range 32 East, approximately 32 miles Southwest of Eunice, in Lea County, New Mexico. The property is on Federal land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active tank battery; Latitude 32.291682 North, Longitude 103.682428 West. The Initial NMOCD Form C-141 indicates on April 12, 2015, approximately 135 bbls of produced water overflowed the tanks due to a SCADA pack failure. The release was contained within the unlined containment area. Approximately 130 bbls of produced water were recovered. Previously submitted NMOCD Form C-141 is available on the NMOCD Imaging System. NMOCD Form C-141 Closure page is included as Attachment V. The release event occurred, remediation activities were completed, and closure was accepted before the NMOCD Rule change on August 24, 2018.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the release site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Depth to groundwater information is provided as Attachment III and the results are depicted on Figures 2 & 3.

One USGS water well was located within a half mile of the release area, listing depth to water at approximately five hundred fifteen feet bgs. The Lea County Depth to Ground Water map listed depth to water at approximately four hundred feet bgs. At that time the NMOCD allowed use of these maps to estimate depth to water. Depth to water was thus determined to be greater than one hundred feet bgs at this location. Utilizing this information, the NMOCD Recommended Remedial Action Levels (RRAL's) for the Site were determined as follows:

| Depth to Groundwater | Constituent | Method | RRAL |
|----------------------|-----------------|-----------------------------------|-------------|
| >100' | Chloride | EPA 300.0 or SM4500 CLB | 1,000 mg/kg |
| | TPH (GRO + DRO) | EPA SW-846 Method 8015M | 5,000 mg/kg |
| | BTEX | EPA SW-846 Methods 8021B or 8260B | 50 mg/kg |
| | Benzene | EPA SW-846 Methods 8021B or 8260B | 10 mg/kg |



Delineation and Remediation Activities:

On September 29, 2015, Hungry Horse conducted an initial site assessment and delineation. Soil samples were collected using hand tools, no mechanical equipment was used. Twelve delineation soil samples were collected from three sample locations, SP1, SP2, and SP3, and were submitted to the laboratory for analysis of chloride.

Laboratory analytical results indicated contaminant concentrations were above the NMOCD delineation requirement of 250 mg/kg in each of the submitted samples, with the exception of SP3 at 2 feet bgs, which exhibited chloride concentration of 240 mg/kg.

On October 6, 2015, the Tomcat 21 Fed 1 Remediation Work Plan Packet was emailed to Kellie Jones at the NMOCD and Shelly Tucker at the BLM. The work plan proposed to hand excavate two feet of impacted material from the area of Sample Point #1 and one foot from the area of Sample Point #3. On October 8, 2015, the proposed work plan was approved by the OCD and BLM. Work plan and email correspondence are provided as Attachment I.

The release area was excavated, via hand tools, according to the approved work plan. Delineation was attempted at SP#1 in an effort to determine, the vertical extent of chloride contamination, and where chloride concentrations were less than or equal to 250 mg/kg. Due to the proximity of tanks and process equipment, delineation was conducted via hand auger. At eight feet below ground surface, auger refusal was encountered due to hard packed caliche. As deeper delineation was not possible, soil samples were collected and submitted to the laboratory for analysis of chloride.

Laboratory analytical results indicated contaminant concentrations were above the NMOCD delineation requirement of 250 mg/kg in each of the submitted samples and were presented to the OCD and BLM. On November 3, 2015, closure approval was given with the stipulation that the incident would remain open until the battery is removed from service. At that time a complete delineation and remediation would be required. Approximately 72 cy of excavated impacted material was transported to an NMOCD approved disposal facility, the excavation was backfilled with clean, non-impacted caliche and brought back to grade. Email correspondence are provided in Attachment I.

However, as the oil and gas industry faced a slowdown in 2016, Devon put a hold on all environmental jobs and related work before a closure report with Final C-141 could be submitted to the NMOCD. In June 2022, Devon requested Hungry Horse prepare for submission this Remediation Summary and Closure Request with NMOCD Form C-141 Closure page.

On May 8, 2020, a Remediation Summary Report Form was received by the NMOCD, however, to date, no response has been received. Report is provided in Attachment I.



A Sample Location Map is provided as Figure 4. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV. Site Photographs are provided as Attachment II.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, and with OCD and BLM approval, the excavated area was backfilled and contoured to achieve erosion control and preserve surface water flow. As the affected area is located on an active tank battery, seeding will not be required.

Closure Request:

Remediation activities were conducted in accordance with NMOCD and BLM approved work plan. Soil affected above the NMOCD Recommended Remedial Action Levels has been excavated and hauled to an NMOCD approved disposal facility. Laboratory analytical results from soil samples were accepted by the NMOCD and BLM and closure report with Final C-141 was requested.

Based on laboratory analytical results and field activities conducted to date, Devon Energy Corporation respectfully requests closure be granted for the Tomcat Federal 21 Com #1 location.

Limitations:

Hungry Horse, LLC, has prepared this Remediation Summary and Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Devon Energy Corporation

6488 Seven Rivers Hwy
Artesia, NM 88210

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
506 W. Texas
Artesia, NM 88210

New Mexico Bureau of Land Management

620 E Greene St
Carlsbad, NM 88220

Figures

**Figure 1**

Topographic Map
 Devon Energy Corporation
 Tomcat Federal 21 Com #1
 GPS: 32.291682, -103.682428
 Lea County

Legend:

- Tomcat Federal 21 Com #1 Location

Drafted: dd
 Checked: bw
 Date: 7/27/22



**Figure 2**

OSE POD Locations Map
Devon Energy Corporation
Tomcat Federal 21 Com #1
GPS: 32.291682, -103.682428
Lea County

Legend:

- Tomcat Federal 21 Com #1 Location
- Active OSE Water Well

Drafted: dd
Checked: bw
Date: 7/27/22



**Figure 3**

USGS Well Locations Map
Devon Energy Corporation
Tomcat Federal 21 Com #1
GPS: 32.291682, -103.682428
Lea County

Legend:

- Tomcat Federal 21 Com #1 Location
- USGS Well Location



Drafted: dd
Checked: bw
Date: 7/27/22



**Figure 4**

Sample Location Map
Devon Energy Corporation
Tomcat Federal 21 Com #1
GPS: 32.291682, -103.682428
Lea County

Legend:

-  Release Area
 Sample Location

Drafted: dd
Checked: bw
Date: 7/27/22



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Devon Energy Corporation
Tomcat Federal 21 Com #1
NMOCD Ref. #: nKJ1528146835

| Sample ID | Date | Depth (ft) | Soil Status | Field Chloride | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
|---|----------|------------|-------------|----------------|-----------------|--------------|---|--|---|------------------|
| SP1 | 9/29/15 | Surf | Excavated | - | - | - | - | - | - | 4,880 |
| | 9/29/15 | 1 | Excavated | - | - | - | - | - | - | 13,200 |
| | 9/29/15 | 2 | Excavated | - | - | - | - | - | - | 7,760 |
| | 9/29/15 | 3 | In-Situ | - | - | - | - | - | - | 6,900 |
| | 10/28/15 | 5 | In-Situ | - | - | - | - | - | - | 576 |
| | 10/28/15 | 7 | In-Situ | - | - | - | - | - | - | 6,130 |
| | 10/28/15 | 8 | In-Situ | - | - | - | - | - | - | 7,600 |
| SP2 | 9/29/15 | Surf | Excavated | - | - | - | - | - | - | 128 |
| | 9/29/15 | 1 | Excavated | - | - | - | - | - | - | 576 |
| | 9/29/15 | 2 | In-Situ | - | - | - | - | - | - | 736 |
| | 9/29/15 | 3 | In-Situ | - | - | - | - | - | - | 736 |
| SP3 | 9/29/15 | Surf | Excavated | - | - | - | - | - | - | 3,040 |
| | 9/29/15 | 1 | Excavated | - | - | - | - | - | - | 576 |
| | 9/29/15 | 2 | In-Situ | - | - | - | - | - | - | 240 |
| | 9/29/15 | 3 | In-Situ | - | - | - | - | - | - | 5,760 |
| NMOCD Recommended Remedial Action Levels | | | | | 10 | 50 | - | - | 5,000 | 1,000 |

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

NMOCD Correspondence

By Kellie Jones at 11:16 am, Oct 08, 2015

By Kellie Jones at 11:17 am, Oct 08, 2015

HUNGRY HORSE, LLC

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

1. Please to vertical delineate SP1 to 250 ppm chlorides.
2. Ensure BLM approval/concurrence.

6Oct15

To: Kellie Jones, New Mexico Oil Conservation Division
Shelly Tucker, Bureau of Land Management
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Tomcat 21 Fed 1
API: 30-025-33356
Legals: UL. F, Sec. 21, T23S, R32E
GPS: 32.2927 -103.6815

Site Information

This site is located in Lea County, New Mexico approximately 3.6 miles north of the intersection of New Mexico Highway 128 and Red Road and 3.5 miles east of Red Road. Based upon the New Mexico State Engineer's website, there is one water well in the area with a depth to groundwater of 400'. The Lea County Depth to Groundwater Map indicates the same depth to groundwater.

This battery is an active and working site. The produced water release that occurred on 12Apr15, had no impact outside the berms of the battery. All fluid released, remained inside the earthen berms.

Work Conducted to Date

A delineation was conducted by use of hand tools on 29Sept15. Due to safety concerns, no mechanical equipment was used. Soil samples were obtained at three sample points from the surface to 3' below ground surface (BGS). Lab analysis was conducted for Chlorides. (See attached map with sample points and lab results.)

Proposed Remediation

Based upon the delineation results, depth to ground water, and the safety concerns of working inside a battery, I propose to hand excavate 2' of impacted material from the area of Sample Point #1 and 1' from the area of Sample Point #3. This encompasses the area between and on both side of the tanks. A complete delineation and remediation will be conducted at the time the facility is shut in and taken out of service.

All impacted material will be transported to a division approved facility for disposal. The battery will then be backfilled with fresh material.

Sincerely,



Vernon K. Black, Hungry Horse, LLC

Remediation Summary Report Form

General Information

This report prepared by Hungry Horse, LLC on 5Nov15, is in response to the release for Devon Energy Production at the Tomcat 21 Fed #1 Battery, located in rural Lea County, New Mexico, for the release that occurred 12Apr15, due to equipment failure.

Date: 5Nov15

Client: Devon Energy Production

Site Name: Tomcat 21 Fed #1

County: Lea

State: New Mexico

API: 30-025-33356

Site Coordinates

Latitude: 32.2927

Longitude: -103.6815

Surface Owner: BLM

Release Description and Assessment

Date of Spill: 12Apr15

Type of Spill: Oil ☒ Produced Water ☐ Condensate ☐ Other (Specify):

Cause of Spill: ☒ Equipment Failure ☐ Valve Failure ☐ Line Rupture ☐ Leaking Tank ☒ Tank Overfill
Other (Specify):

Other Contributing Factors or Comments: N/A

Quantity Spilled: 135 bbls

Quantity Recovered: 130 bbls

Total Released: 5 bbls

Method of Recovery: ☒ Vacuum Truck ☐ Other (Specify):

New Mexico Oil Conservation Division Notified: ☒ Yes ☐ No C 141 Completed and Submitted: ☒ Yes ☐ No

Spill Area Impacted: ☒ Inside Firewall ☐ On Production Pad ☐ In Pasture ☐ In Cultivated Land
Other (Specify): Nothing outside of firewall was impacted

Total Square Foot Impacted: 3800

Estimated Depth: 1'

Volume (Cu. Yards): 75

Other Comments: Nothing outside of firewall was impacted

Remediation Activity Summary

The remediation work plan was executed as approved by both NM OCD and BLM. Approximately one foot of impacted soil was removed from the impacted areas except for the area around Sample Point #1 where 2' of impacted soil was removed. As per the approved work plan, further delineation was conducted at SP #1 to try and determine the point at which Chlorides reached 250 ppm or less. Due to safety concerns, this further delineation was conducted by use of a hand auger. At eight foot below ground surface, auger refusal was encountered due to hard packed caliche. Soil samples were collected and lab analysis conducted. Results, which did not reach the 250 ppm goal, were resented to NM OCD and BLM. Due to safety concerns further delineation was not practical. Closure approval was given with the stipulation that the RP would remain open until such time the battery is removed from service and a full delineation and remediation is completed. All impacted material was transported to a division approved disposal facility and the excavated battery was backfilled with fresh caliche and brought back to grade.



Vernon K. Black, Hungry Horse, LLC

Vernon Black

From: Vernon Black
Sent: Tuesday, November 03, 2015 9:28 AM
To: Kellie Jones (kellie.jones@state.nm.us)
Cc: Shelly J. Tucker (stucker@blm.gov); Brett Fulks (Brett.Fulks@dvn.com)
Subject: Tomcat 21 Fed #1 Battery

Kellie,

Thanks for taking the time to meet with me this morning concerning the work at the above referenced location. I and my customer, Devon Energy Production, understand the NM OCD requirement for determining the depth at which Chlorides reach a level of 250 ppm or less. However, as we discussed it is a serious safety concern to try using equipment, other than hand tools, to determine the point at which the Chlorides reach this level inside the battery. We appreciate you taking this into consideration and will proceed, as you approved, to backfill the excavated site with the stipulation that the RP will remain open until such time the battery is removed from service. At that time a complete delineation/remediation will be performed.

Thanks for your help,

Vernon K. Black
Hungry Horse, LLC
PO Box 1058
Hobbs, NM 88241
575-393-3386 office
575-631-2253 cell

Vernon Black

From: Tucker, Shelly <stucker@blm.gov>
Sent: Tuesday, November 03, 2015 9:59 AM
To: Vernon Black
Cc: Kellie Jones (kellie.jones@state.nm.us); Brett Fulks (Brett.Fulks@dvn.com)
Subject: Re: Tomcat 21 Fed #1 Battery

Thank you for the information. I will note this in my records.

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Tue, Nov 3, 2015 at 9:28 AM, Vernon Black <vblack@hungry-horse.com> wrote:

Kellie,

Thanks for taking the time to meet with me this morning concerning the work at the above referenced location. I and my customer, Devon Energy Production, understand the NM OCD requirement for determining the depth at which Chlorides reach a level of 250 ppm or less. However, as we discussed it is a serious safety concern to try using equipment, other than hand tools, to determine the point at which the Chlorides reach this level inside the battery. We appreciate you taking this into consideration and will proceed, as you approved, to backfill the

excavated site with the stipulation that the RP will remain open until such time the battery is removed from service. At that time a complete delineation/remediation will be performed.

Thanks for your help,

Vernon K. Black

Hungry Horse, LLC

PO Box 1058

Hobbs, NM 88241

575-393-3386 office

575-631-2253 cell

Vernon Black

From: Jones, Kellie, EMNRD <Kellie.Jones@state.nm.us>
Sent: Thursday, October 08, 2015 1:21 PM
To: Vernon Black; Shelly J. Tucker (stucker@blm.gov)
Cc: Reggie Brooks; Terry Smith
Subject: RE: Devon-Tomcat 21 Fed 1 Battery

Vernon,

Here is information on the recent submittal.

| | | | | | | | |
|-------------|-----------|---|-------|-------------------|--------------|--------------|----|
| 3902 | 10/8/2015 | A | Devon | Tomcat 21 Battery | 23S 32E 21 F | 30 025 33356 | 4, |
|-------------|-----------|---|-------|-------------------|--------------|--------------|----|

The work plan is conditionally approved, with the condition of complete vertical delineation at the site down to 250 ppm chlorides.

If you have any questions, please feel free to contact me.

Kellie Jones
 Environmental Specialist, District 1
 Oil Conservation Division, EMNRD
 575-393-6161 ext. 111
 575-370-3180 (emergency-cell)
 E-Mail: kellie.jones@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Vernon Black [<mailto:vblack@hungry-horse.com>]
Sent: Wednesday, October 07, 2015 10:21 AM
To: Jones, Kellie, EMNRD; Shelly J. Tucker (stucker@blm.gov)
Cc: Reggie Brooks; Terry Smith
Subject: Devon-Tomcat 21 Fed 1 Battery

Kellie,

Thanks for taking the time to meet with me this morning to discuss the work plan for the above referenced site. As per our conversation, we'll proceed with the remediation plan as approved with the stipulation for further delineation at SP #1. We'll conduct further sampling/analysis at this point and provide you the results.

Shelly, for your review.

Thanks for all your help,
 Vernon K. Black
 Hungry Horse, LLC
 PO Box 1058

Hobbs, NM 88241
575-393-3386 office
575-631-2253 cell

Vernon Black

From: Tucker, Shelly <stucker@blm.gov>
Sent: Thursday, October 08, 2015 10:30 AM
To: Vernon Black
Cc: Kellie Jones (kellie.jones@state.nm.us); Reggie Brooks; Terry Smith
Subject: Re: Devon-Tomcat 21 Fed 1 Battery

Vernon,

The BLM accepts/approves your proposed work plan - with concurrence of NMOCD stipulation of full delineation at SP1

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Wed, Oct 7, 2015 at 10:21 AM, Vernon Black <vblack@hungry-horse.com> wrote:

Kellie,

Thanks for taking the time to meet with me this morning to discuss the work plan for the above referenced site. As per our conversation, we'll proceed with the remediation plan as approved with the stipulation for further delineation at SP #1. We'll conduct further sampling/analysis at this point and provide you the results.

Shelly, for your review.

Thanks for all your help,

Vernon K. Black

Hungry Horse, LLC

PO Box 1058

Hobbs, NM 88241

575-393-3386 office

575-631-2253 cell

Attachment II Site Photographs

Photographs



Photographs



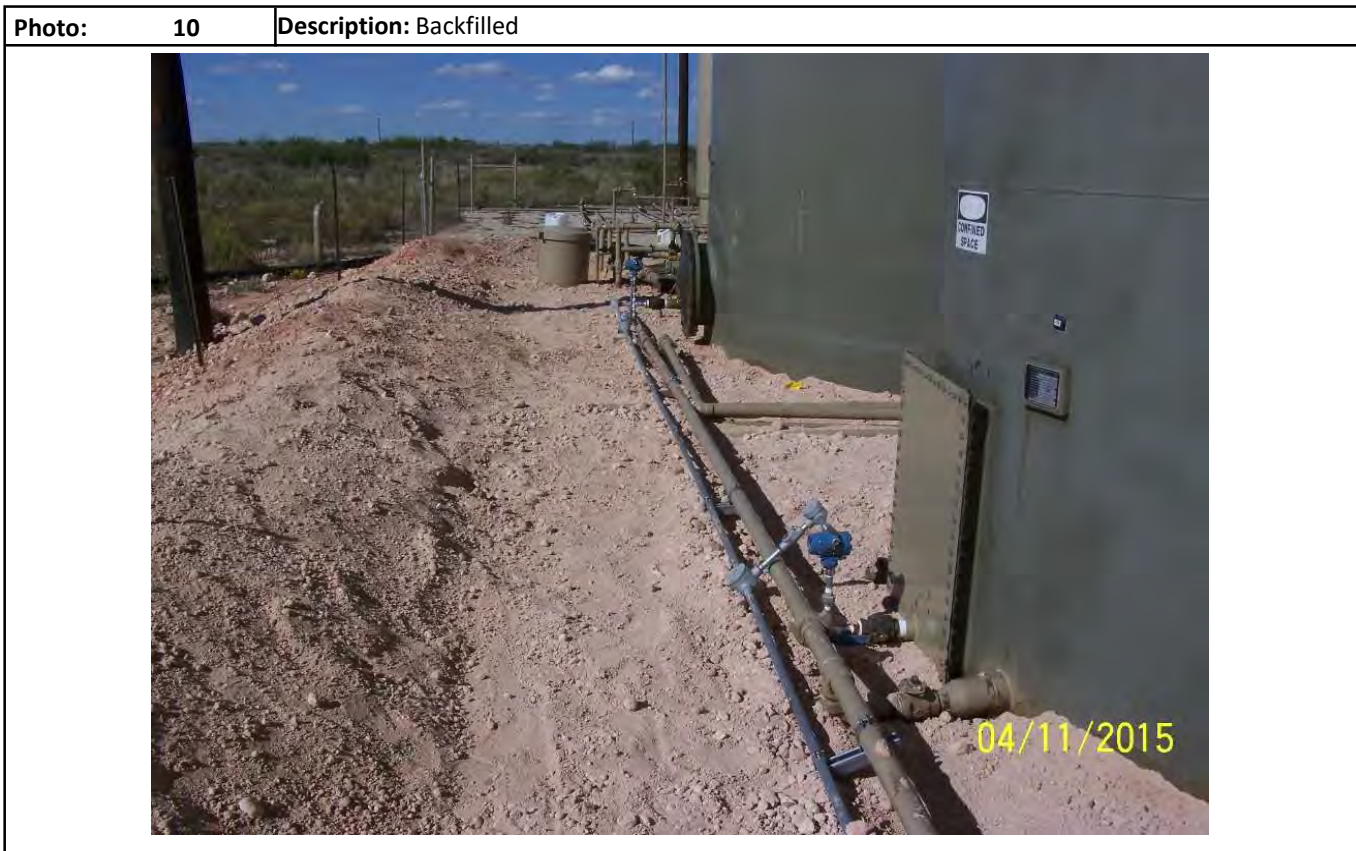
Photographs



Photographs



Photographs



Photographs



Attachment III

Depth to Groundwater



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 624060.85 Northing (Y): 3573529.32 Radius: 805

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/27/22 10:36 AM WELLS WITH WELL LOG INFORMATION



To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes. Additional precautions are [here](#).

Available data for this site:

Output formats

[illegible]

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

U.S. Department of the Interior | U.S. Geological Survey
Title: Water Quality Samples for USA: Sample Data
URL: <https://nwis.waterdata.usgs.gov/nwis/qwdata/>

Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2022-07-27 16:50:23 EDT
0.24 649 (index)



Attachment IV

Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 01, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TOMCAT 21 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/29/15 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #1 SURFACE (H502574-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4880 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP #1 1' BGS (H502574-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 13200 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP #1 2' BGS (H502574-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7760 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: SP #1 3' BGS (H502574-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6900 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #2 SURFACE (H502574-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #2 1' BGS (H502574-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 576 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #2 2' BGS (H502574-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 736 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #2 3' BGS (H502574-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 736 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #3 SURFACE (H502574-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3040 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/29/2015
 Reported: 10/01/2015
 Project Name: TOMCAT 21 BATTERY
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP #3 1' BGS (H502574-10)

| Chloride, SM4500Cl-B | | mg/ kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 576 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #3 2' BGS (H502574-11)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 240 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: SP #3 3' BGS (H502574-12)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5760 | 16.0 | 09/30/2015 | ND | 416 | 104 | 400 | 0.00 | |

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------------------|--------------|------------------|------------|--------------------------|-----|---------------|---------|------------|------------|-------------------------|---------|-----------------------|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Hungry Horse, LLC | | P.O. #: | | BILL TO | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: Vernon K. Black | | Company: | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | |
| Address: PO Box 1058 | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | |
| City: Hobbs | | Address: | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 575-631-2253 | | City: | | | | | | | | | | | | | | | | | | | | | | | | |
| Fax #: 575-391-4585 | | State: | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: Devan | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Tencat 21 Basterly | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: 801 Lea Court 1 | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Vernon K. Black | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | | | | | | | | | | | | |
| H502574 | SP#1 | G | 1 | | | X | | | | | | | Sept 14 | 1400 | chlorides | | | | | | | | | | | |
| 1. Surface | 1' BG5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. 3' BG5 | 2' BG5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. 3' BG5 | 3' BG5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Surface | SP#2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. 1' BG5 | 1' BG5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. 2' BG5 | 2' BG5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. 3' BG5 | 3' BG5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: [Signature] | | Date: Sept 15 | | Time: 1400 | | Received By: [Signature] | | Date: Sept 15 | | Time: 1400 | | CHECKED BY: [Signature] | | Initials: [Signature] | | | | | | | | | | | | |
| Relinquished By: [Signature] | | Date: Sept 15 | | Time: 1400 | | Received By: [Signature] | | Date: Sept 15 | | Time: 1400 | | CHECKED BY: [Signature] | | Initials: [Signature] | | | | | | | | | | | | |
| Delivered By: (Circle One) | | Sample Condition | | Cool | | Yes | | No | | Yes | | No | | Add'l Phone #: | | | | | | | | | | | | |
| Sampler - UPS - Bus - Other: | | Fax Result: | | Yes | | No | | Add'l Fax #: | | | | | | | | | | | | | | | | | | |
| REMARKS: | | | | | | | | | | | | | | | | | | | | | | | | | | |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 30, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: TOMCAT 21 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/15 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 10/28/2015
 Reported: 10/30/2015
 Project Name: TOMCAT 21 FED #1
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 10/28/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Judy Garcia

Sample ID: SP1 5' BGS (H502831-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 10/30/2015 | ND | 464 | 116 | 400 | 10.9 | |

Sample ID: SP1 7' BGS (H502831-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6130 | 16.0 | 10/30/2015 | ND | 464 | 116 | 400 | 10.9 | |

Sample ID: SP1 8' BGS (H502831-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7600 | 16.0 | 10/30/2015 | ND | 464 | 116 | 400 | 10.9 | |

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | | | |
|---|--|---|--|
| Company Name: Hungry Horse, LLC Project Manager: Vernon K. Black Address: PO Box 1058 City: Hobbs State: NM Zip: 88241 Phone #: 575-631-2253 Fax #: 575-391-4585 Project #: Project Name: TONCAT 21 Fed #1 Project Location: Lea County ~ Sample Name: Vernon K. Black | | P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: | |
| FOR LAB USE ONLY | | BILL TO | |
| Lab I.D. H502831 Sample I.D. SP1 1. 5' BGS 2. 7' BGS 3. 8' BGS | | ANALYSIS REQUEST | |
| Relinquished By: [Signature] Relinquished Date: 1/15/05 Relinquished Time: 1:00 PM | | REMARKS: Chlorides | |
| Received By: [Signature] Received Date: 1/15/05 Received Time: 1:00 PM | | DATE 1/15/05 TIME 1:00 PM | |
| Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | CHECKED BY: [Signature] | |
| Delivered By: (Circle One) UPS Bus Other #34 2046 | | 2046 | |

Attachment V
NMOCD Form C-141 Closure page

| | |
|----------------|---------------|
| Incident ID | nKJ1528146835 |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall Title: Env. Prof.

Signature: Dale Woodall Date: 7/29/2022

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 129856

CONDITIONS

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 129856 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon | None | 7/29/2022 |